

IN THE CLAIMS:

A complete listing of the pending claims of this application, including any amendments made by this paper, follows below:

1-12. (Canceled)

13. (Currently Amended) A ~~locating device for use in a~~ child locating system comprising ~~said a~~ a child locating device, and a further device to be carried or worn by a child, the further device comprising transmission means for transmitting an electromagnetic signal towards said child locating device, the electromagnetic signal having a signature associated with the further device[;],

said child locating device comprising:

signature storage means for storing a representation of the signature of the further device;

at least three spaced antennas for receiving said electromagnetic signal;

switching means for switching the at least three antennas in such a way as to obtain a Dopplercant effect;

processing means for processing the electromagnetic signal as received by the antennas so as to detect the signature of the received signal, and to compare the signature as detected with the representation of the signature as stored;

and outputting means for producing, if the signature as detected corresponds to the representation of the signature as stored, an output indicative of the direction of the further device with respect to said child locating device.

14. (Currently Amended) A locating ~~device~~ system according to claim 13, wherein said child locating device further comprises ~~comprising~~ at least four spaced antennas.

15. (Currently Amended) A locating ~~device~~ system according to claim 13, wherein the antennas are unidirectional antennas and the angular ranges covered by ~~neighbouring~~ neighboring antennas overlap.

16. (Currently Amended) A locating ~~device~~ system according to claim 13, further comprising distance determining means for determining the distance between the child locating device and the further device, wherein the child locating device is arranged to produce an output indicative of the distance between the child locating device and the further device.

17. (Currently Amended) A locating ~~device~~ system according to claim 16, wherein the distance determining means comprises means for causing one of said antennas to transmit a further electromagnetic signal towards the further device, means for causing one of said antennas to receive a return signal from the further device, time measuring means for measuring the time between transmission of the further signal and receipt of the return signal, and estimating means for estimating the distance between the child locating device and the further device based on the measured time.

18. (Currently Amended) A locating ~~device~~ system according to claim 17, wherein the means for causing one of said antennas to transmit the further signal is arranged to cause that antenna which is closest to the further device to transmit the further signal.

19. (Currently Amended) A locating ~~device~~ system according to claim 16, wherein the outputting means comprises a display for displaying the direction of the further device with respect to the child locating device.

20. (Currently Amended) A locating ~~device~~ system according to claim 19 wherein the display is further arranged to display the distance between the child locating device and the further device.

21. (Currently Amended) A locating ~~device~~ system according to claim 16, further ~~comprises~~ comprising notifying means for notifying a user if the distance between the child locating device and the further device is larger than a predetermined value.

22. (Currently Amended) A locating ~~device~~ system according to claim 13, further comprising means for alerting a user if no electromagnetic signal is received from the further device.

23. (Currently Amended) A locating ~~device~~ system according to claim 13, further comprising means for causing one of said antennas to transmit an initial electromagnetic signal which is arranged to cause the further device to transmit said electromagnetic signal.

24. (Currently Amended) A locating ~~device~~ system according to claim 13, wherein said child locating device is arranged to communicate with two or more said further devices, wherein the signature storage means is arranged to store the signatures of each further device, the signatures of each further device being different, and wherein the outputting means is arranged to produce an output indicative of the direction and/or the distance of each further device with respect to the child locating device.

25. (Currently Amended) A locating ~~device~~ system according to claim 24, wherein the outputting means is arranged to produce simultaneously for each further device an output indicative of the direction and/or the distance with respect to the child locating device.

26. (Currently Amended) A locating ~~device~~ system according to claim 24, further comprising means for enabling a user to select a said further device, and wherein the outputting means produces an output indicative of the direction and/or the distance for the selected further device with respect to the child locating device.

27. (Currently Amended) A locating ~~device~~ system according to claim 13, wherein the child locating device is arranged to receive battery charging level information from the or each

further device, and the outputting means is arranged to produce an output indicative of the battery charging level of the or each further device, based on the battery charging level information.

28. (Currently Amended) A locating system ~~comprising the locating device~~ according to claim 13, and wherein said system includes one or more of said further devices.

29. (Currently Amended) A locating system according to claim 28, wherein a said one or more of said further device devices is arranged to be carried or worn by a person, preferably a child.

30. (Canceled)

31. (Currently Amended) A method of determining, using a locating device, information indicative of the direction of a ~~further device~~ child with respect to said locating device, the child wearing or carrying a further device, the method comprising:

storing a representation of a signature associated with the further device in said locating device;

transmitting an electromagnetic signal from the further device towards said locating device, the electromagnetic signal including the signature associated with the further device;

receiving said electromagnetic signal at said locating device, using at least three spaced antennas which are switched in such a way as to obtain a Dopplercant effect;

processing the electromagnetic signal as received by the antennas so as to detect the signature of the received signal;

comparing the signature as detected with the representation of the signature as stored; and

if the signature as detected corresponds to the representation of the signature as stored, producing an output indicative of the direction of the further device with respect to said locating device.

Serial No. 10 /524,597
Attorney Docket No. 534334-058
Amendment

32-47. (Canceled)

48. (Previously Presented) A method according to claim 31, wherein the further device is carried or worn by a person, preferably a child.

49. (New) A system according to claim 13, wherein said child locating device further comprises a battery for powering said child locating device.

50. (New) A method according to claim 31, wherein said locating device is battery powered.